

**PIK3CA(H1047Y)****PIK3CA(H1047Y)****Cat. #:** 26216**Size:** 100 µL**Gene Symbol:** PIK3CA, CLOVE, CWS5, MCAP, MCM, MCMTTC, PI3K, p110-α**Description:** Anti-PIK3CA(H1047Y) Mouse Monoclonal Antibody**Background:** Phosphatidyl 3-kinases (PI3K) are a family of lipid kinases involved in many cellular processes, including cell growth, proliferation, differentiation, motility, and survival. It is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. Mutants of PIK3CA has been found in the pathogenesis of several cancers, including colon cancer, gliomas, gastric cancer, breast cancer, endometrial cancer, and lung cancer.**Immunogen:** A synthetic peptide from the internal region of PIK3CA which includes the mutation of H1047Y, human origin.**Applications:** ELISA, WB, IHC**Recommended Dilutions:**

ELISA: 1:1000–1:5000

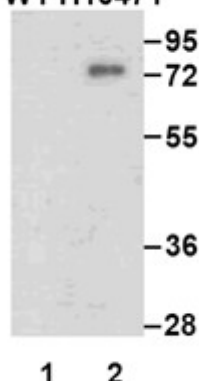
WB: 1:500–1:1000

IHC: 1:50–1:100

**Concentration:** 0.5 mg/ml**Host Species:** Mouse**Format:** Liquid**Clonality:** Monoclonal**Isotype:** IgG**Purity:** Purified from ascites**Preservative:** No**Constituents:** PBS (without  $Mg^{2+}$  and  $Ca^{2+}$ ), pH 7.4, 150 mM NaCl, 50% glycerol**Species Reactivity:** Recognizes H1047Y mutant, but not wild type PIK3CA of vertebrates.**Storage Conditions:** Store at  $-20^{\circ}C$ . Avoid repeated freezing and thawing

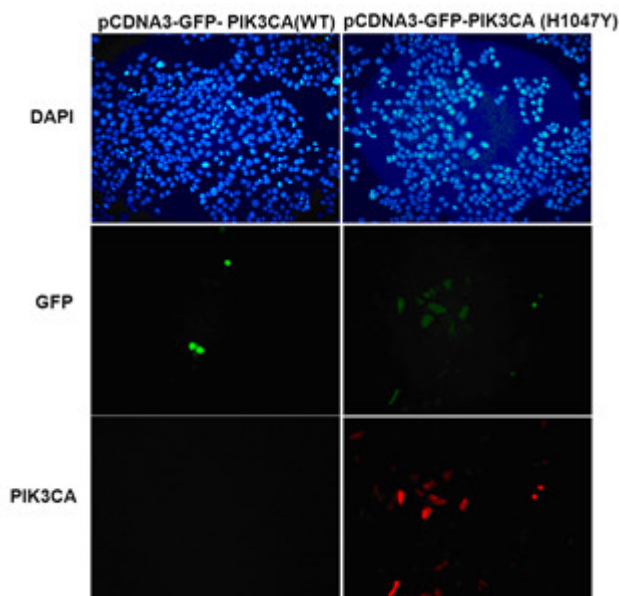
## PIK3CA protein

WT H1047Y



### Western blot: WB: Anti- PIK3CA(H1047Y) mAb

Western blot analysis of recombinant PIK3CA(H1047Y) and wild type proteins. Purified His-tagged PIK3CA(H1047Y) protein (lane 2) and corresponding wild type protein (lane 1) were blotted with Anti-PIK3CA(H1047Y) monoclonal antibody (Cat. #26216).



### Immunofluorescence:

Immunofluorescence of cells expressing PIK3CA proteins with Anti-PIK3CA(H1047Y) antibody. HEK293T cells were transfected with pCDNA3-GFP-PIK3CA (WT) plasmid (left column) or pCDNA3-GFP-PIK3CA(H1047Y) plasmid (right column), then fixed and stained with Anti-PIK3CA(H1047Y) monoclonal antibody (Cat. #26216).